

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:636
ANSWERED ON:03.08.2011
ESTABLISHMENT OF NUCLEAR PLANTS
Siddeswara Shri Gowdar Mallikarjunappa

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the Government is entering into collaboration with many countries for establishing nuclear plants and import of uranium;
- (b) if so, the details thereof; and
- (c) the stage of negotiations in each of the aforesaid cases?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND IN THE PRIME MINISTER'S OFFICE
(SHRI V. NARAYANASAMY)

(a)&(b) Yes, Sir. Light Water Reactors (LWRs) of 1000 MW and higher capacity are planned to be set up in technical cooperation with the Russian Federation, France and the USA. The LWRs to be set up in technical cooperation with these countries are Generation III+ reactors with state of the art, advanced safety features. The Government has accorded 'in principle' approval of sites and earmarked the site for each of the technology. The details in respect of sites, technologies and plans to set up reactors in the first phase are as under:

Location and State	Technology	To be set up in cooperation with (First phase)	Capacity in MW
# Kudankulam, Tamil Nadu	Voda-Vodyanoi-Energeticheskyy	Russian Federation	2x1000
(KKNPP 3&4) Reactors (VVER)			
Jaitapur, Maharashtra	European Pressurised Reactors (EPR)	France	2x1650
Kovvada, Andhra Pradesh	Economic Simplified Boiling Water Reactors (ESBWR)	USA	2x1300
Chhaya Mithi Virdi, Gujarat	Advanced Passive 1000 (AP1000)	USA	2x1100
Haripur, West Bengal	Voda-Vodyanoi-Energeticheskyy Reactors (VVER)	Russian Federation	2x1000

= Two units (KKNPP 1&2) of 1000 MW each are at advanced stage of commissioning.

For supply of natural uranium concentrates, fabricated pellets and enriched uranium pellets contracts have been signed with the suppliers from France, Russia and Kazakhstan.

(c) Discussions with the companies, Atomstroyexport of Russian Federation, Areva of France and Westinghouse Electric Company

(WEC) and GE Hitachi Nuclear Energy (GEH) of USA to arrive at detailed project proposals are in progress. The negotiations on Techno Commercial Offers (TCO) in respect of Kudankulam 3&4 and Jaitapur 1&2 are at an advanced stage. Discussions are in progress with WEC and GEH in respect of reactors to be set up in technical cooperation with the USA.